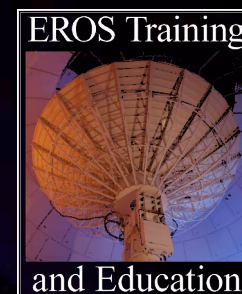




How to Order a TerraLook Product

A Guide to Searching and Ordering
TerraLook Images from the TerraLook
Web Site

U.S. Department of the Interior
U.S. Geological Survey

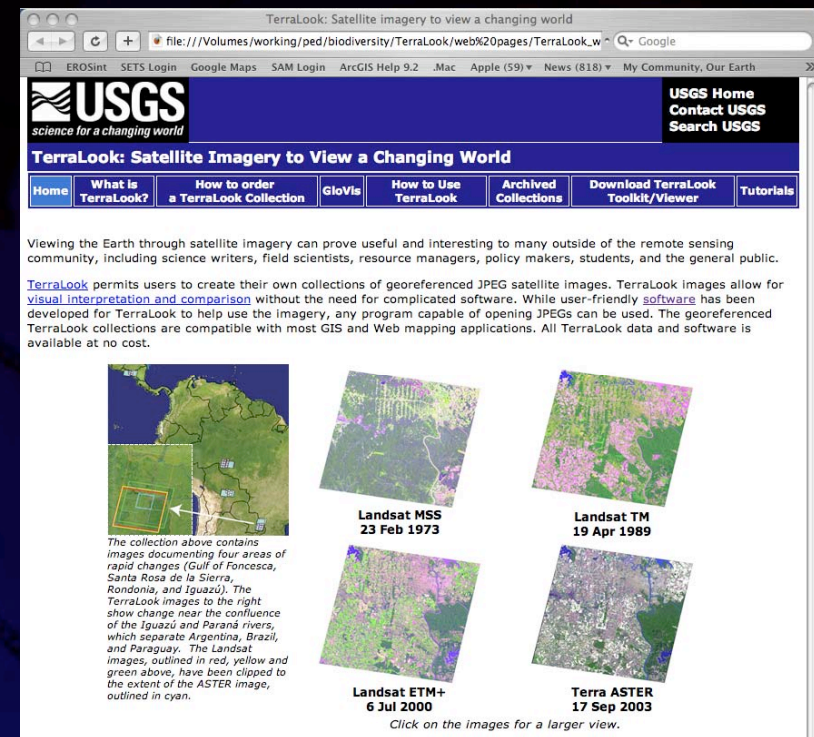


Learning Objectives

- After completing this module the student should be able to
 - Access the TerraLook Web site
 - Select a TerraLook collection from GloVis
 - Order a Terralook collection
 - Download a collection
 - Open a collection in the TerraLook Viewer/Toolkit

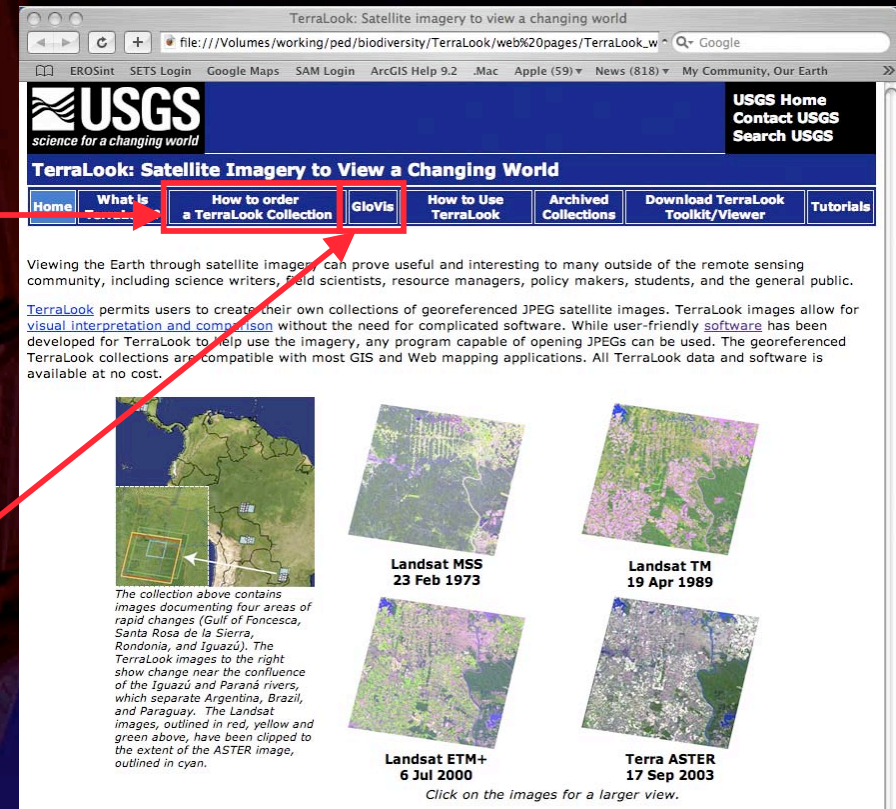
TerraLook Web Site

- General information about TerraLook collections
- Quick guide to searching and ordering TerraLook collections using GloVis
- Archived collections
- TerraLook Viewer/Toolkit
- <http://terralook.cr.usgs.gov/>



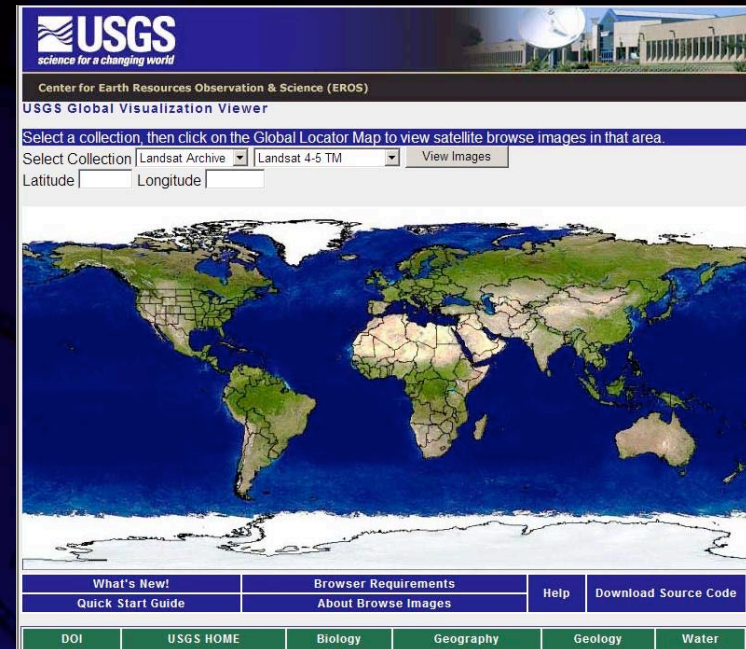
How to Order

- Go to the TerraLook web site
 - Quickly scan “How to order a TerraLook Collection”
 - Go to “Search and Order GloVis” to select a Collection



GloVis

- Quick and easy online tool
 - Quick Start Guide
 - About browse images
 - Help
- Search and Order
 - Satellite and aircraft data
 - TerraLook Collections
- Browser Requirements
 - Java 2 (plug-in) and JavaScript support



Navigation Controls - GloVis

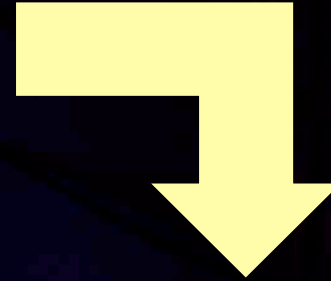
- Location map
- WRS path/row tiles
- Lat/long
- Max cloud
- Arrow buttons
- Scene information
- Date selection
- Previous and next scene
- Scene list
- More info: <http://glovis.usgs.gov/ImgViewerHelp.html>

Useful Tools in GloVis

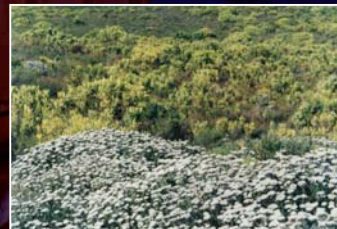
- *Hidden Scene List*: interactively hide and unhide images
- *Scene List*: view an expanded version of the scene list
- *Search for Scene*: search a specific scene using a known scene ID
- *Search Limits*: limit displayed scenes by various metadata fields, scene list, and study area (ASTER only)
- *Swath Mode (ASTER only)*: access images acquired on the same day, along the same path
- *Save and Load Scene List*: write and read the content of all scene lists in a file
- More Info: <http://glovis.usgs.gov/ImgViewerHelp.html>

Select a TerraLook Collection

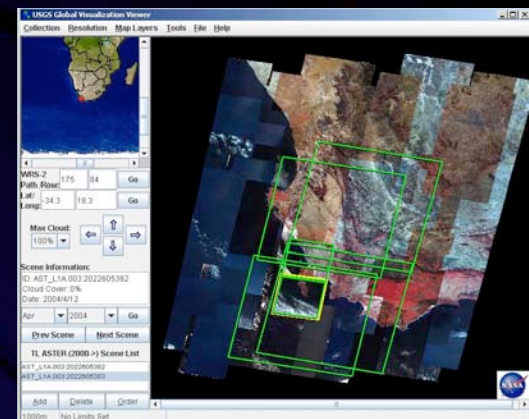
■ Quick Guide to select a TerraLook Collection



Example: Select a TerraLook Collection for a “fynbos” study area near Cape Town, South Africa, to visualize land use changes over several years and how those changes have affected fynbos.




Source: <http://www.capetownskies.com/>



Select a Collection – Step 1

■ Start GloVis



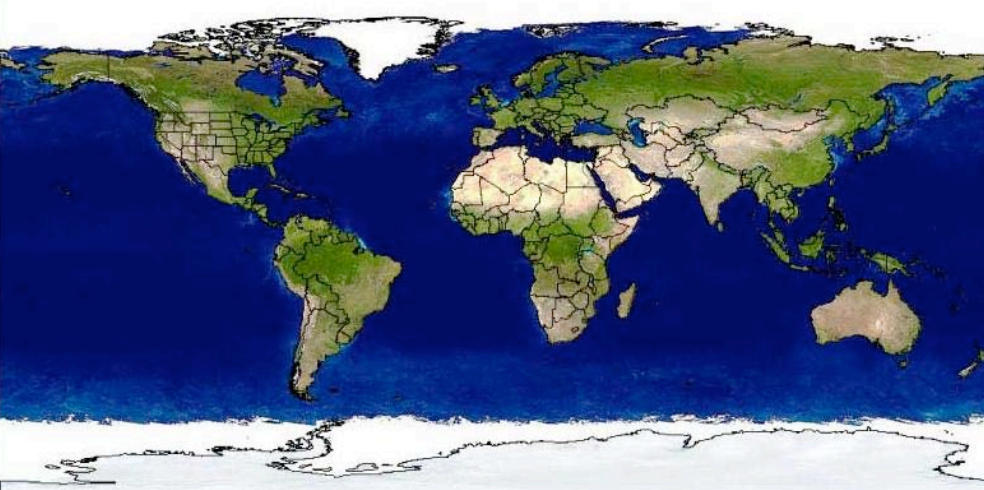
Center for Earth Resources Observation & Science (EROS)

USGS Global Visualization Viewer

Select a collection, then click on the Global Locator Map to view satellite browse images in that area.

Select Collection

Latitude Longitude



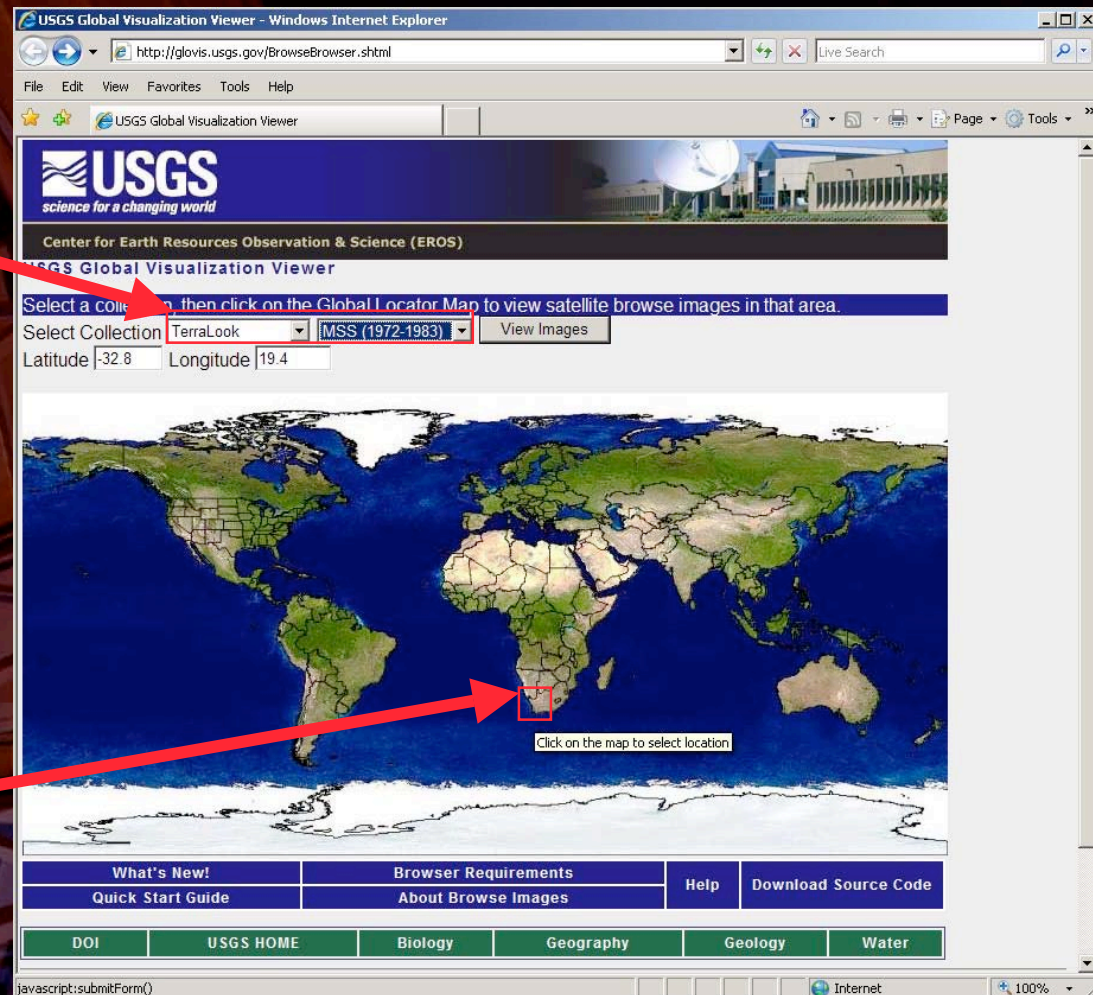
| | | | |
|-------------------|----------------------|------|----------------------|
| What's New! | Browser Requirements | Help | Download Source Code |
| Quick Start Guide | About Browse Images | | |

| | | | | | |
|-----|-----------|---------|-----------|---------|-------|
| DOI | USGS HOME | Biology | Geography | Geology | Water |
|-----|-----------|---------|-----------|---------|-------|



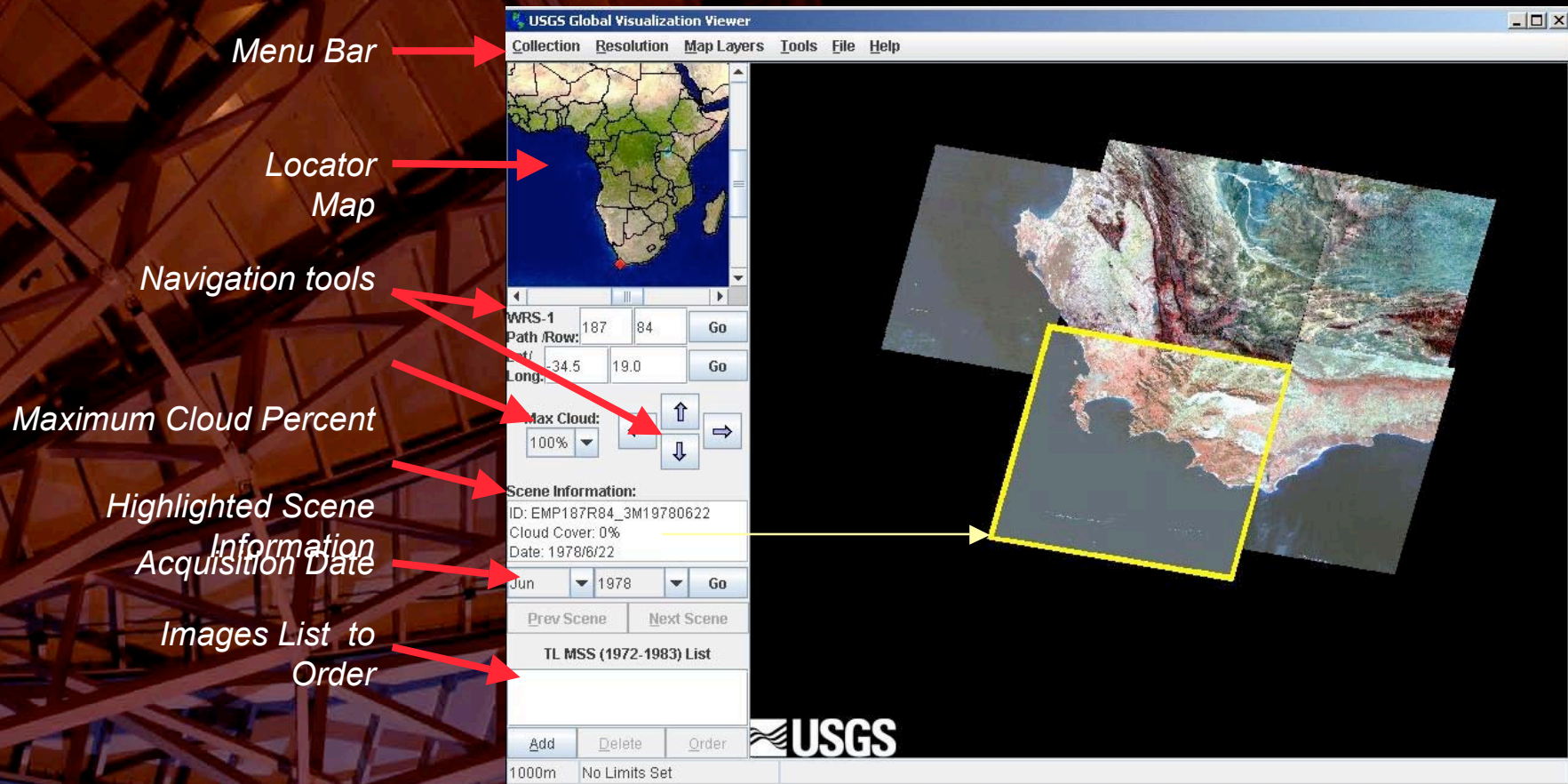
Select a Collection – Step 2

- Select TerraLook Collection and satellite sensor.
- Click on the world map to view satellite images in that area.



Select a Collection – Step 3

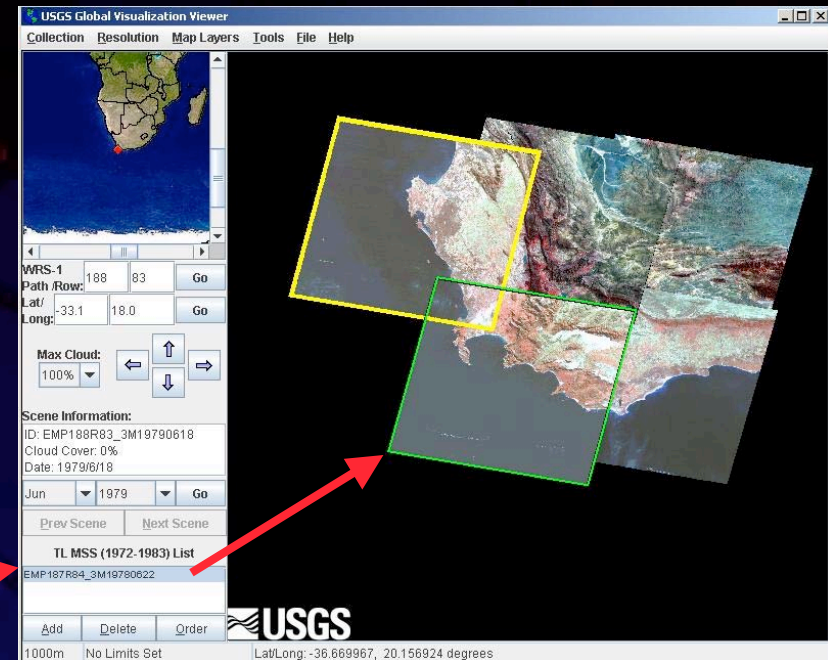
- The Visualization Viewer appears.



Select a Collection – Step 4

- Navigate to a specific image.
- Click the “Add” button to include selected image in the Scene List.
- All images in Scene Lists are outlined in green in the Image Display Area.
- Can include one or several images.

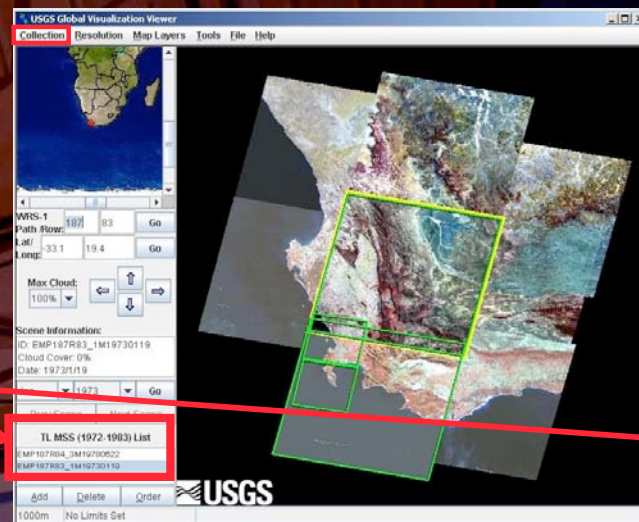
Added Image (green box)



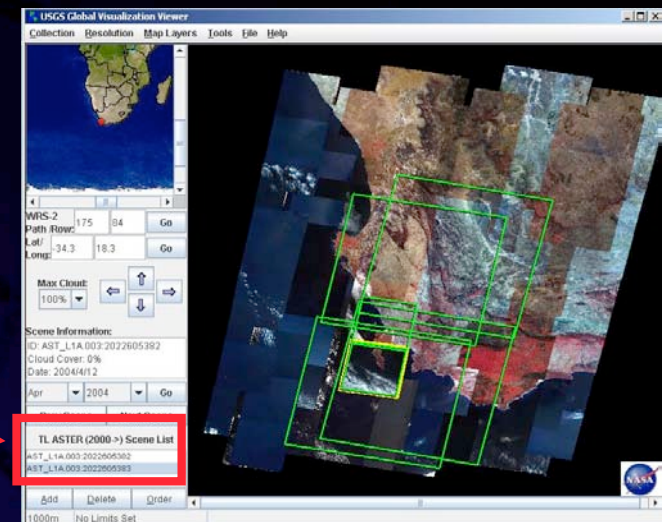
Select a Collection – Step 5

- Go to Collection > TerraLook > ... to select images from another TerraLook Sensor.
- A Scene List is created for each TerraLook Sensor.
- Example:

*Different
Scene
Lists*



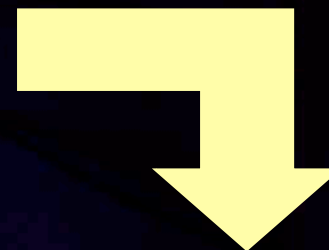
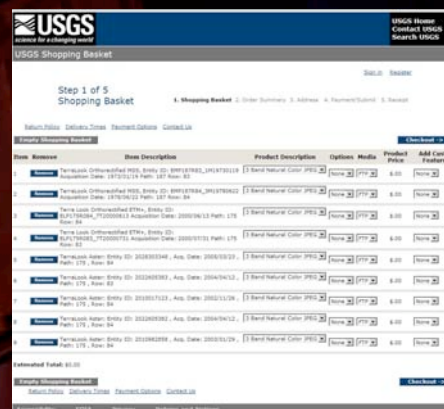
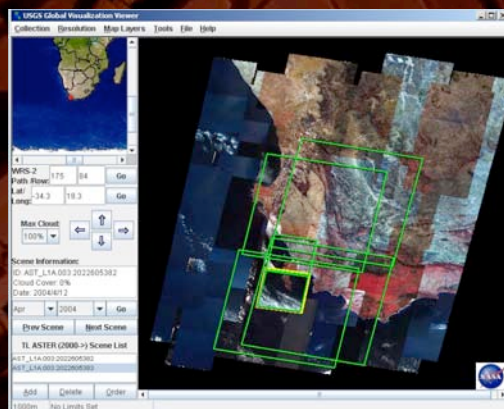
TL MSS Collection



TL ASTER Collection

Order a TerraLook Collection

■ Quick Guide to Ordering a TerraLook Collection



Your USGS TerraLook order is complete: 0800708100028

USGS/EROS Customer Services <customers@usgs.gov> [View Details](#) 11:00 am (15 minutes ago) [Reply](#)

Order number 0800708100028 was placed on 10-AUG-07. 1 unit was requested in this order.

You can retrieve your USGS TerraLook collection by following this link:
http://edcftp.cr.usgs.gov/terralook/0800708100028/terralook_0800708100028.zip

The file is 2366142 bytes (2 MB), download time will depend on your internet connection.

Thank you for ordering from USGS/EROS.

DOWNLOAD and UNZIP INSTRUCTIONS:

Your order is available as a single file which you may download using a web browser any time in the next 7 days. By clicking on the link above, your web browser should prompt you open or save a file. Save the file to your computer in order to have the ability to access your order again later, the file will only be retained on our server for 7 days. You may see an error that says the page cannot be displayed, this is because the link isn't a real web page, just a link to the file for you to download.

If you are not able to follow the link, try pasting the link into your web browser, use your mouse to highlight the URL, (the link, starting with http:// and ending with .zip) and Copy, then place your mouse in your web browser's address bar and Paste, then press the [Enter] or [Return] key.

All of the files for your order were placed into one .zip file using a standard, current .zip utility that should be compatible with current .unzip utilities Windows, Mac, or UNIX/Linux. To open the file in Windows, double-click on it, and you should get a window with options for "extracting the zipped" files to your computer. If not, you may need to install a separate .zip program. Searching for .zip/unzip in a web search engine should provide many options; most up-to-date .zip/unzip utilities should work. UNIX/Linux and Mac systems have an .unzip utility installed on them automatically. Text (ASCII) files were saved using Windows line-endings, so Windows users should simply be able to open them, and Mac and UNIX users should be able to read them as well.

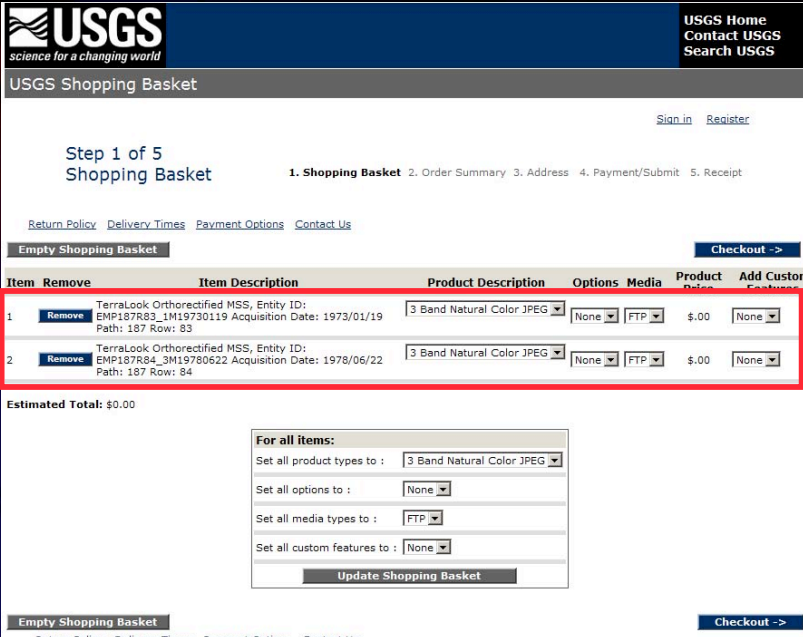
INSTRUCTIONS FOR USING TERRALOOK DATA:

This data collection is part of the TerraLook project. The images are in JPEG format, which can be opened in most web browsers, word processors, or photo-editing software. The collection also includes shapefiles and metadata that can be used by GIS software or the free TerraLook Viewer. Please go to <http://edc2.usgs.gov/terralook/> for further information about TerraLook.

Order a Collection – Step 1

- The first time the “Order” button is clicked in the Viewer:
 - Register as a Guest or Registered User.
 - The images from the first sensor will be moved to the Shopping Basket.

*Add Selected TL MSS
Images in the Shopping
Basket*

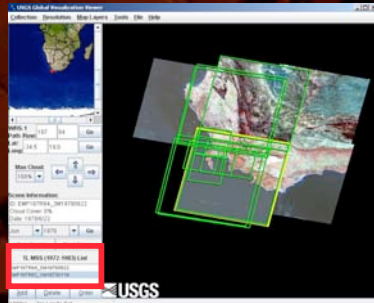


The screenshot displays the USGS Shopping Basket page. At the top, the USGS logo and navigation links are visible. The page title is "USGS Shopping Basket". Below the title, there are links for "Sign In" and "Register". The page indicates "Step 1 of 5 Shopping Basket" and lists the steps: 1. Shopping Basket, 2. Order Summary, 3. Address, 4. Payment/Submit, 5. Receipt. There are links for "Return Policy", "Delivery Times", "Payment Options", and "Contact Us". The main content area shows a table of items in the shopping basket. The table has columns: Item, Remove, Item Description, Product Description, Options, Media, Product Price, and Add Custom Features. Two items are listed:

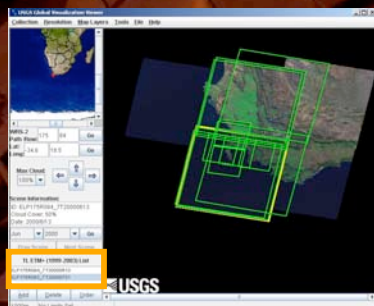
| Item | Remove | Item Description | Product Description | Options | Media | Product Price | Add Custom Features |
|------|------------------------|--|---------------------------|---------|-------|---------------|---------------------|
| 1 | Remove | TerraLook Orthorectified MSS, Entity ID: EMP187R83_1M19730119 Acquisition Date: 1973/01/19 Path: 187 Row: 83 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 2 | Remove | TerraLook Orthorectified MSS, Entity ID: EMP187R84_3M19780622 Acquisition Date: 1978/06/22 Path: 187 Row: 84 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |

Below the table, the "Estimated Total" is \$0.00. There is a section for "For all items:" with dropdown menus for "Set all product types to:", "Set all options to:", "Set all media types to:", and "Set all custom features to:". The "Update Shopping Basket" button is at the bottom. The page footer includes the USGS logo and navigation links.

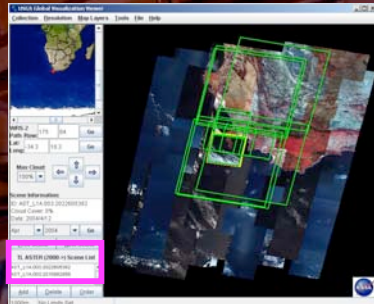
Order a Collection – Step 2



TL MSS



TL ETM+



TL ASTER

USGS
science for a changing world

USGS Home
Contact USGS
Search USGS

USGS Shopping Basket

[Sign in](#) [Register](#)

Step 1 of 5 Shopping Basket

1. Shopping Basket 2. Order Summary 3. Address 4. Payment/Submit 5. Receipt

[Return Policy](#) [Delivery Times](#) [Payment Options](#) [Contact Us](#)

Empty Shopping Basket [Checkout ->](#)

| Item | Remove | Item Description | Product Description | Options | Media | Product Price | Add Custom Features |
|------|------------------------|---|---------------------------|---------|-------|---------------|----------------------|
| 1 | Remove | TerraLook Orthorectified MSS, Entity ID: EMP187R83_1M19730119 Acquisition Date: 1973/01/19 Path: 187 Row: 83 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 2 | Remove | TerraLook Orthorectified MSS, Entity ID: EMP187R84_3M19780622 Acquisition Date: 1978/06/22 Path: 187 Row: 84 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 3 | Remove | Terra Look Orthorectified ETM+, Entity ID: ELP175R084_7T20000613 Acquisition Date: 2000/06/13 Path: 175 Row: 84 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 4 | Remove | Terra Look Orthorectified ETM+, Entity ID: ELP175R083_7T20000731 Acquisition Date: 2000/07/31 Path: 175 Row: 83 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 5 | Remove | TerraLook Aster: Entity ID: 2028303348, Acq. Date: 2005/03/23 Path: 175, Row: 84 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 6 | Remove | TerraLook Aster: Entity ID: 2022605383, Acq. Date: 2004/04/12 Path: 175, Row: 83 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 7 | Remove | TerraLook Aster: Entity ID: 2010017123, Acq. Date: 2002/11/26 Path: 175, Row: 84 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 8 | Remove | TerraLook Aster: Entity ID: 2022605382, Acq. Date: 2004/04/12 Path: 175, Row: 84 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |
| 9 | Remove | TerraLook Aster: Entity ID: 2010982858, Acq. Date: 2003/01/29 Path: 175, Row: 84 | 3 Band Natural Color JPEG | None | FTP | \$0.00 | None |

Estimated Total: \$0.00

Empty Shopping Basket [Checkout ->](#)

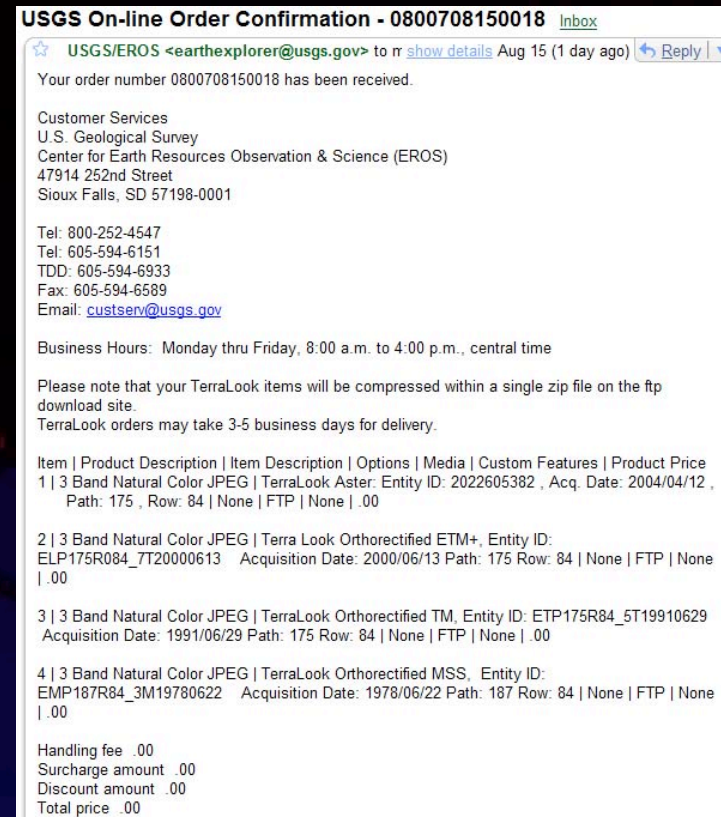
[Return Policy](#) [Delivery Times](#) [Payment Options](#) [Contact Us](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)

Go to each TL Sensor Scene List and click on “Order” button to move all to the Shopping basket

Order a Collection – Step 3

- Checkout
- Fill in the Contact Form (mandatory fields)
- E-mail Confirmation
- Delivery is 3-5 business day



Download a Collection

- E-mail – Completed Order
- Location where TerraLook Collection can be retrieved
- Zip File
- Size of file may vary
- Typical TerraLook image sizes are:
 - Landsat MSS: 4 MB
 - Landsat TM: 14 MB
 - Landsat ETM+: 14 MB
 - ASTER: 5.5 MB



Your USGS TerraLook order is complete: 0800708150018 [Inbox](#)

★ **USGS/EROS Customer Services** <custserv@usgs.gov> [show details](#) Aug 15 (22 hours ago) [Reply](#) | ▾

Order number 0800708150018 was placed on 15-AUG-07. 4 units were requested in this order.
You can retrieve your USGS TerraLook collection by following this link:
http://edcftp.cr.usgs.gov/terralook/0800708150018/terralook_0800708150018.zip
The file is 22400388 bytes (21 MB); download time will depend on your internet connection.

Thank you for ordering from USGS/EROS.

DOWNLOAD and UNZIP INSTRUCTIONS:
Your order is available as a single file which you may download using a web browser any time in the next 7 days.
By clicking on the link above, your web browser should prompt you open or save a file. Save the file to your computer in order to have the ability to access your order again later; the file will only be retained on our server for 7 days. You may see an error that says the page cannot be displayed; this is because the link isn't a real web page, just a link to the file for you to download.

If you are not able to follow the link, try pasting the link into your web browser: use your mouse to highlight the URL (the link, starting with http:// and ending with .zip) and Copy, then place your mouse in your web browser's address bar and Paste, then press the [Enter] or [Return] key.

All of the files for your order were placed into one 'zip' file using a standard, current 'zip' utility that should be compatible with current 'unzip' utilities Windows, Mac, or UNIX/Linux. To open the file in Windows, double-click on it, and you should get a window with options for 'extracting' the 'zipped' files to your computer. If not, you may need to install a separate 'zip' program. Searching for zip/unzip in a web search engine should provide many options; most up-to-date zip/unzip utilities should work. UNIX/Linux and Mac systems have an unzip utility installed on them automatically. Text (ASCII) files were saved using Windows line-endings, so Windows users should simply be able to open them, and Mac and UNIX users should be able to read them as well.

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DISCLAIMER:
No warranty is expressed or implied regarding the utility of this product. If the format of the product is not compatible with your software, you may need a conversion or import utility to facilitate your use of this product.

CONTACT INFORMATION:
If you need further assistance, please contact our Customer Services department.

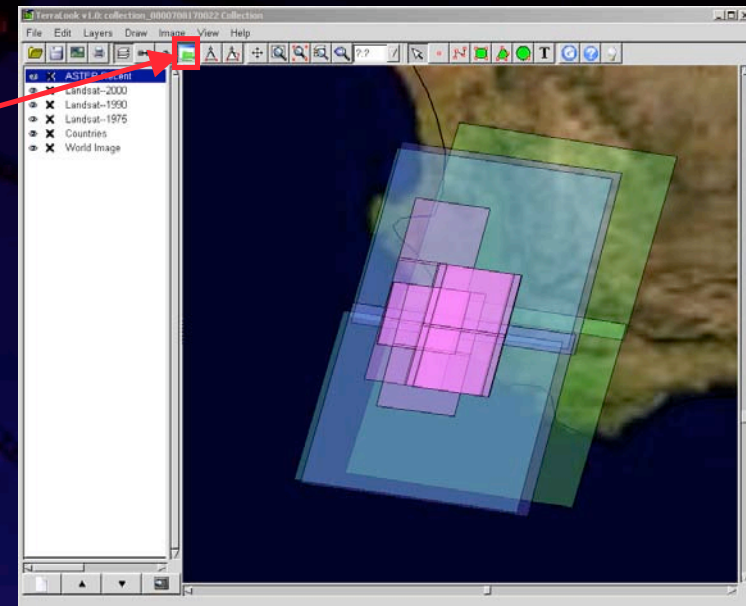
Collection Format

- **/Collection Name**

- **/Data** → Multiple shapefiles and text files that describe the footprints of the scenes in the collection
- **/Images** → JPG images, plus their world files to provide geocoding, and XML metadata
- **parameters.txt** → Parameters used to generate the images
- **TerraLook-Collection.xml** → Collection level metadata in XML

Opening a Collection

- Unzip the downloaded zip file
- Open TerraLook Viewer/Toolkit
- File > Open > Open Collection
- Navigate to the folder containing the Collection
- Click “OK”
- Display the Layer Manager to see footprint layers for each sensor



Exercises

- **Select a TerraLook Collection
(15 Minutes)**
- **Order a TerraLook Collection
(10 Minutes)**
- **Open a TerraLook Collection
(10 Minutes)**


Select a TerraLook Collection

- Open GloVis and select an area of interest
- Choose the TerraLook Collection
- Choose one of the Tri-Decadal Landsat options to start
- Use Navigation Controls to find a particular image
- View Metadata for more information about the selected TerraLook image
- View Browse Image
- Add to the Scene List

Order a TerraLook Collection

- Following the previous exercise, click on the “Order”
- Click on “Guest User”
- Check the shopping basket
- Click “Checkout”
- Fill in mandatory fields in the form and submit form
- Download the TerraLook Collection
- Extract files from zip file and check each one

Open a TerraLook Collection

- Following the previous exercise, open the TerraLook Viewer/Toolkit
- File > Open > Open Collection
- Navigate to the folder containing the Collection
- Click “OK”
- Display the Layer Manager to see footprint layers for each sensor
- Click “Open Satellite Images”  icon and click anywhere inside the footprints to see the list of images grouped by the sensor and acquired dates